

## CLAIMS:

1. A method of operating a telecommunication system that enables operation of a mobile telephone at different user rates that are dependent on the instantaneous location, characterized in that a local fixed station at the user end transmits a first signal of limited range that is received by a mobile telephone that is associated with the fixed station, that is,  
5 provided that this mobile telephone is within the range of the transmission signal, and that the mobile telephone transmits, in response to the reception of the first signal, a second signal to a base station of the telecommunication system which switches over to a different user rate in response to the reception of the second signal.

10 2. A method as claimed in claim 1, characterized in that the fixed station transmits an encoded first signal.

15 3. A method as claimed in claim 1 or 2, characterized in that the first signal is transmitted in a clocked mode or continuously.

20 4. A method as claimed in one of the preceding claims, characterized in that the second signal is transmitted as soon as the mobile telephone that is ready for operation is present within the range of the first signal, or that the second signal is transmitted only if a speech connection is to be established, or has been established, and the mobile telephone is situated within the range of the first signal.

25 5. A method as claimed in claim 4, characterized in that the second signal is transmitted only once, or a number of times in succession at intervals, or is transmitted continuously.

6. A method as claimed in one of the preceding claims, characterized in that the mobile telephone transmits a third signal to the base station when it is outside the range of the first signal or has left the range of the first signal.

7. A method as claimed in one of the preceding claims, characterized in that the display of the mobile telephone indicates when the mobile telephone is present within the range of the first signal.

5 8. A method as claimed in one of the preceding claims, characterized in that the first signal is a radio signal.

9. A method as claimed in claim 8, characterized in that the first signal is a Bluetooth signal or a DECT signal.

10 10. A system for carrying out the method as claimed in one of the claims 1 to 9, including a mobile radio network with at least one base station as well as a mobile telephone that can operate within the mobile radio network, and a local fixed station that is provided at the user end and is associated with the mobile telephone, where

- 15 - the fixed station (1) includes a transmission means (2) for transmitting a first signal (3) of limited range (R),
- the mobile telephone (7) includes a receiving means (8) for the first signal (3),
- the mobile telephone (7) includes a transmission means (9) for a second signal (10) that is to be transmitted to the base station in response to the reception of the first signal (3), and the base station (11) includes means (12) for switching over, in response to the reception of the second signal (10), from a first to a second user rate for the use of the mobile radio network by the mobile telephone (7).
- 20

11. A system as claimed in claim 10, characterized in that the transmission means (2) of the fixed station (1) are constructed so as to transmit and the receiving means (8) of the mobile telephone (7) are constructed so as to receive an encoded first signal (3).

25

12. A system as claimed in claim 10 or 11, characterized in that the transmission means (2) of the fixed station (1) are constructed for the clocked or continuous transmission of the first signal (3).

30

13. A system as claimed in one of the claims 10 to 12, characterized in that the transmission means (9) of the mobile telephone (7) are arranged to transmit the second signal (10) directly in response to the reception of the first signal (3) by the mobile telephone (7)

that is ready for operation, or that the transmission means (9) are arranged to transmit the second signal (10) only when a speech connection is established or already exists and when the mobile telephone (7) is present within the range (R) of the first signal (3).

5 14. A system as claimed in claim 13, characterized in that the transmission means (9) are constructed in such a manner that the second signal (10) is transmitted only once, or a number of times in succession at intervals, or is transmitted continuously.

10 15. A system as claimed in one of the claims 10 to 14, characterized in that the transmission means (9) of the mobile telephone (7) are arranged to transmit a third signal (13) to the base station (11) in the case of a location outside the range (R) of the first signal (3) or upon departure from the range (R) of the first signal (3).

15 16. A system as claimed in one of the claims 10 to 15, characterized in that on the display (14) of the mobile telephone (7) it can at least be indicated when the mobile telephone (7) is present within the range (R) of the first signal (3).

20 17. A system as claimed in one of the claims 10 to 16, characterized in that the transmission means (2) of the fixed station (1) and the receiving means (8) of the mobile telephone (7) are arranged to transmit and receive, respectively, the first signal (3) in the form of a radio signal.

25 18. A system as claimed in claim 17, characterized in that the first signal (3) is a Bluetooth signal or a DECT signal.

19. A system as claimed in one of the claims 10 to 18, characterized in that the fixed station (1) includes a mains connection (5) for power supply.

30 20. A system as claimed in one of the claims 10 to 19, characterized in that the fixed station (1) includes receiving and comparison means (4) for an access code that is to be applied to the fixed station (1), via the mobile telephone (7), in order to put the fixed station into operation, that is, also after an interruption of the power supply.

21. A system as claimed in one of the claims 10 to 20, characterized in that the fixed station (1) includes a connection device (6) for connection to a fixed network that is preferably operated by the network operator, and also a device via which the network operator can enable the fixed station (1) for operation by transmission of an enable code.

5

22. A system as claimed in one of the claims 10 to 21, characterized in that the fixed station (1) includes a receiving means for receiving an enable signal that can be issued by the base station (11) via the mobile radio network, as well as a device for enabling.

10 23. A fixed station that is suitable for the method as claimed in one of the claims 1 to 9 and for a system as claimed in one of the claims 10 to 22, respectively, which station includes transmission means (2) for transmitting an encoded radio signal (3) of limited range (R).

15 24. A fixed station as claimed in claim 23, characterized in that the transmission means (2) are arranged to transmit a Bluetooth signal or a DECT signal.

20 25. A fixed station as claimed in claim 23 or 24, characterized in that the transmission means (2) of the fixed station (1) are arranged for clocked or continuous transmission of the first signal (3).

26. A fixed station as claimed in one of the claims 23 to 25, characterized in that the fixed station (1) includes a mains connection (5) for power supply.

25 27. A fixed station as claimed in one of the claims 23 to 26, characterized in that the fixed station (1) includes receiving and comparison means (4) for an access code that is to be applied to the fixed station (1), via the mobile telephone (7), in order to put the fixed station into operation, that is, also after an interruption of the power supply.

30 28. A fixed station as claimed in one of the claims 23 to 27, characterized in that the fixed station (1) includes a connection device (6) for connection to a fixed network that is preferably operated by the network operator, and also a device via which the network operator can enable the fixed station for operation by transmission of an enable code.

29. A fixed station as claimed in one of the claims 23 to 28, characterized in that the fixed station (1) includes a receiving means for receiving an enable signal that can be issued by the base station, as well as a device for enabling.

PHDE000224